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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,976	05/02/2005	Jian W. Mulligan		2265
William Mullig	7590 02/11/200 an	EXAMINER		
Advanced Construction Products, Inc.			GENNARO, JR, ANTHONY J	
P. O. Box 3642 Long Beach, CA 90803			ART UNIT	PAPER NUMBER
			4136	
			MAIL DATE	DELIVERY MODE
			02/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/826,976	MULLIGAN, JIAN W.		
Office Action Summary	Examiner	Art Unit		
	Anthony Gennaro, Jr.	4136		
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>02 in 20.00</u> This action is FINAL . 2b) ☑ The 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-12 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) 6-12 is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination of the drawing(s) filed on 02 May 2005 is/are: a	awn from consideration. /or election requirement.	by the Everniner		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Objections

3. Claims 6-12 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can not depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hart (US Patent 4,870,796) in view of Tonyan (US Patent Application Publication 2006/0185267 A1). Hart discloses [claim 1] a composite roof and wall system, three-in-one: fireproof, insulation and waterproofing, comprising an expanded polystyrene foam board (10) adhered onto the existing roof deck or wall (14); the use of a tough waterproofing membrane (16) coating as the adhesive to glue onto the existing roof or wall substrate and connected with each other by construction tape, such as butyl tape, or by using the waterproofing membrane coating to seal the seams between the foam boards. (The phrase "modified bitumen" does not appear in the above sentence because Hart does not disclose a tough waterproofing membrane made specifically of modified bitumen. Hart does disclose a tough waterproofing membrane comprised of roofing felt which is an equivalent waterproofing material.) The waterproofing membrane is fully brushed, rolled or sprayed over the foam boards with a mesh material (Hart, 20) placed over said tough waterproof membrane coating for reinforcement. Hart does not disclose a composition of cement, clay, perlite, sand, etc. that forms a tough cover placed over the mesh by brushing or rolling or spraying onto said system to protect it from fire, physical and weather damages. Tonyan discloses (See Fig. 6B) a composition of cement, clay, perlite, sand, etc. (140) that forms

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a tough cover placed over the mesh by brushing or rolling or spraying onto said system to protect it from fire, physical and weather damages. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide a composition of cement, clay, perlite, sand, etc. that forms a tough cover placed over the mesh by brushing or rolling or spraying onto said system to protect it from fire, physical and weather damages disclosed in Hart in view of the teachings of Tonyan. The motivation for doing so would have been to provide a durable top layer of the roof system.

Tonyan (See Fig. 6B) also discloses the use of a tough waterproofing membrane (136) coating (134) as the adhesive to glue onto the existing roof or wall substrate and connected with each other by construction tape, such as butyl tape, or by using the waterproofing membrane coating to seal the seams between the foam boards (130). (The phrase "modified bitumen" does not appear in the above sentence because Tonyan does not disclose a tough waterproofing membrane made specifically of modified bitumen. Tonyan does disclose a tough waterproofing membrane comprised of asphalt, which is an equivalent waterproofing material.)

Regarding claim 2, Hart discloses a composite roof and wall system, three-in-one: fireproof, insulation and waterproofing, comprising according to claim 1 wherein said expanded polystyrene foam board (10) must be rigid and non-flammable and is between 2 inches to 8 inches in thickness, placed on the surface of said tough waterproof membrane coating freshly and well brushed or rolled or sprayed onto the surface of the existing roofs or walls as the first waterproofing coating.

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Regarding claim 3, the combination of Hart and Tonyan discloses a composite roof and wall system, three-in-one: fireproof, insulation and waterproofing, comprising, according to claim 1 wherein said tough waterproofing material is made of modified asphalt emulsion with natural and synthetic resins, applying two to three times onto the roof or wall surface using 0.125 to 0.25 gallon per square yard.

Regarding claim 4, Hart discloses a composite roof and wall system, three-in-one: fireproof, insulation and waterproofing, according to claim 1 wherein said reinforcement medium mesh (16) is woven polyester type of mold and mildew free and non-flammable or non-combustible having a weight between 0.01 to 1 ounces per square yard depending on the needs.

Regarding claim 5, the combination of Hart and Tonyan discloses a composite roof and wall system, three-in-one: fireproof, insulation and waterproofing, according to claim 1 wherein said lightweight tough coat (134, 138 and 140) comprising cement, clay, silicate (perlite), sand, etc., mixed with water to make it into paste form at job site and having a thickness of said paste between 0.125 inches to 0.75 inches, using said lightweight tough coat mixture between 3 to 10 pounds per square yard and allowing twenty days or so to be fully cured.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Anthony Gennaro, Jr. whose telephone number is (571) 270-

5217. The examiner can normally be reached on Monday - Friday 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, J. Allen Shriver can be reached on (571)272-6698. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. G./

Examiner, Art Unit 4136

/J. Allen Shriver/

Supervisory Patent Examiner, Art Unit 4136